COLORADO RIVER RECOVERY PROGRAM FY-2004–2005 PROPOSED SCOPE OF WORK for:

(Retrieval of native fish from GVIC and GVP canals)

Note: Annual reports only.

Lead Agency: Fish and Wildlife Service

Colorado River Fishery Project

Submitted by: Chuck McAda, Project Leader (lead)

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Project No.: C-29a

Expected Funding Source: x Annual funds

__ Capital funds

Other (explain)

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Date: May 16, 2003 (revised 6/19/03 by Pat Nelson)

Category:

- Ongoing project
- Ongoing-revised project
- <u>x</u> Requested new project
- _ Unsolicited proposal
 - I. Title of Proposal:

Retrieval of native fish entrained in GVIC and GVP irrigation canals.

II. Relationship to RIPRAP:

COLORADO RIVER ACTION PLAN: MAINSTEM

II.B.1.b. Screen GVIC diversion to prevent endangered fish entrainment. II.B.3.b. Screen Government Highline diversion to prevent endangered fish entrainment.

III. Study Background/Rationale and Hypotheses:

A fish screen was constructed on the Grand Valley Irrigation Company (GVIC) irrigation canal in winter 2001 – 2002. The fish screen was not operated during 2002 because of operational problems. A fish salvage operation was conducted in the canal after diversions were halted for the winter to determine if fish were being lost in the canal — about 3,400 native fish were salvaged from the canal at that time. Modifications have been made to the canal intake and fish screen to improve operation and reduce impacts to the company's ability to fill the canal. The fish screen was not operated during the first two months of the irrigation system, but it is proposed to be operational for most of the irrigation season once repairs are made. This study proposes to sample the canal in fall 2003 and 2004 to compare fish numbers with those found in 2002.

For the Grand Valley Project canal system, native fish will be retrieved until the screen is in place and functioning properly.

IV. Study Goals, Objectives, End Product:

Estimate the number of fish entrained in the GVIC and GVP canals. Return native fish to the Colorado River.

V. Study Area

GVIC and GVP irrigation canals, Grand Junction, Colorado

VI. Study Methods/Approach

The entire length of the GVIC canal and major laterals that hold water after irrigation diversions are terminated will be sampled using a barge electrofishing system carried in the back of a pickup truck. The truck will travel the canal road searching for pools of water that could still hold fish. When pools of water are found, crews will walk the canal using electrofishing probes and capture all fish possible. Native fish will be placed in a hatchery truck, transported to the Colorado River and released alive. Records of species and numbers of fish collected will be maintained.

The same approach will be used for the Grand Valley Project canal system.

VII. Task Description and Schedule

Task 1. Sample GVIC and GVP canals in November.

VIII. FY-2004 Work

- Deliverables/Due Dates
 Sample canals, provide summary of fish collected November, 2003
- Budget

Note: Budget has been multiplied by 2 to include the Grand Valley Project canals.

- Labor

Project Leader (1 week at 1,880/week)	1,880
Fishery Biologist (2, GS 11, 1 week at 1,620/week)	3,240
Fishery Biologist (3, GS 9, 1 week at 1,222/week)	3,666
Bio Tech (2, GS 7, 1 week at 820/week)	1,640
	10,426

Equipment (vehicle gas, generator gas, miscellaneous equipment)

500

- Total $10,926 \times 2 = 21,852$

FY-2005 Work (for multi-year study)

- Deliverables/Due Dates
 Sample canal, provide summary of fish collected November, 2004
- Budget
 - Labor

Project Leader (1 week at 1,974/week)	1,974
Fishery Biologist (2, GS 11, 1 week at 1,701/week)	3,402
Fishery Biologist (3, GS 9, 1 week at 1,271/week)	3,813
Bio Tech (2, GS 7, 1 week at 861/week)	1,722
	10 911

- Equipment (vehicle gas, generator gas, miscellaneous equipment)

550

- Total

 $11,461 \times 2 = 22,922$

IX. Budget Summary

FY-2004 \$10,926 \times 2 = 21,852 FY-2005 \$11,461 \times 2 = 22,922 Total: \$22,387 \times 2 = 44,774

- X. Reviewers
- XI. References

^{*} Do NOT include overhead costs on funds transferred from Reclamation to the Service.